STABILIZED METALLOCENE COMPOUNDS OF TRANSITION METALS OF GROUP 4 AND PROCESS FOR THEIR PREPARATION.

Abstract

A metallocene compound of a metal M of group 4 in the table of elements, comprising a cyclopentadienyl group and at least one oligomeric group R' bonded to M, having the following formula (II):

$$-(A_x D_y U_z) R^I \qquad (II)$$

wherein:

A represents any monomeric unit deriving from a vinylaromatic group polymerizable by means of anionic polymerization, having from 6 to 20 carbon atoms;

D represents any monomeric unit deriving from a conjugated diolefin polymerizable by means of anionic polymerization, having from 4 to 20 carbon atoms;

U represents any generic optional monomeric unit deriving from an unsaturated compound copolymerizable with any of the above conjugated diolefins D or vinylaromatic compounds A;

R^I represents hydrogen or a hydrocarbyl group having from 1 to 20 carbon atoms,

each index "x" and "y" can be independently zero or an integer, provided the sum (x+y) is equal to or higher than 2, preferably between 2 and 50, more preferably between 2 and 25;

"z" can be zero or an integer ranging from 1 to 20.

Said complex can be used for the formation of catalytic systems, in particular for the (co)polymerization of olefins, with enhanced stability and a high activity, so as to enable transportation and storage for prolonged periods of time.